Select the area of part to be treated

Selecting the desired magnitude of compression and residual stress distribution

Exerting pressure against the surface of the selected region, the pressure being applied in a selected pattern along the surface to form zones of deformation having a deep layer of compressive stress

Varying the pressure being exerted against
the surface to produce the desired
residual stress distribution and magnitude of compression
within the surface

Fig. 1

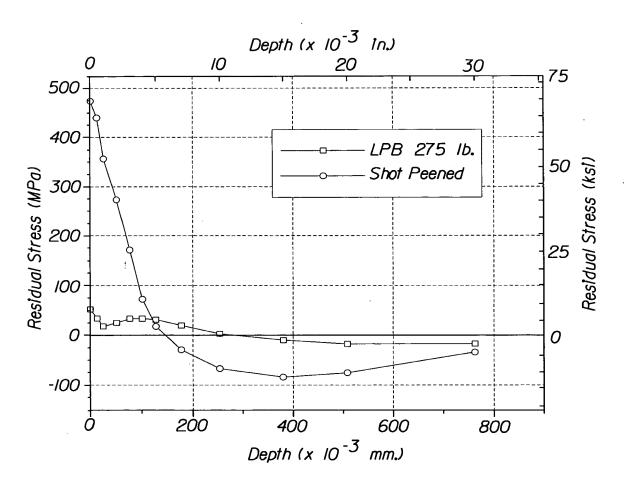
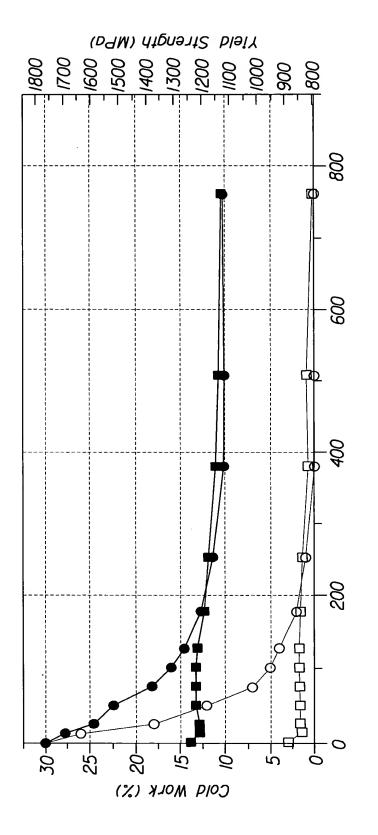
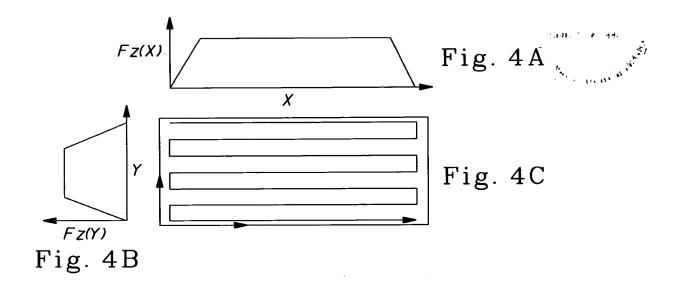
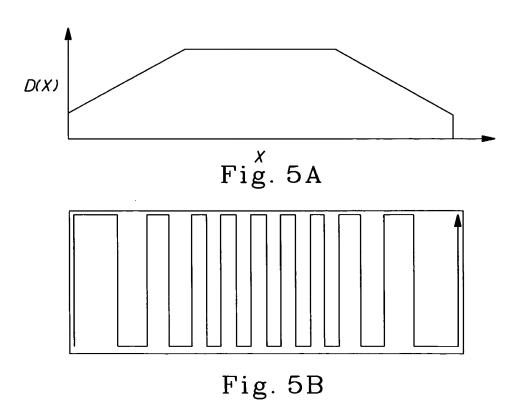


Fig. 2



Depth (x10⁻³ mm) $\operatorname{Fig. 3}$





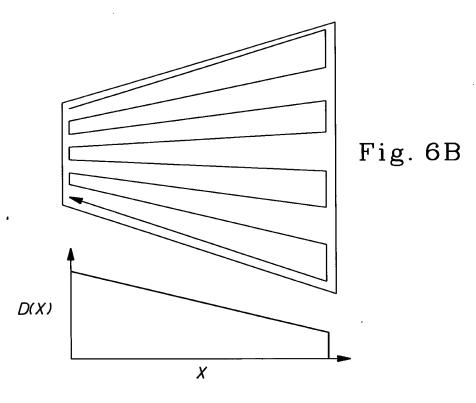
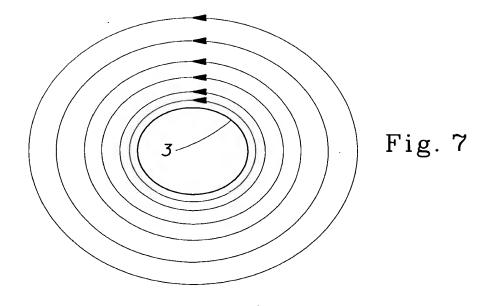
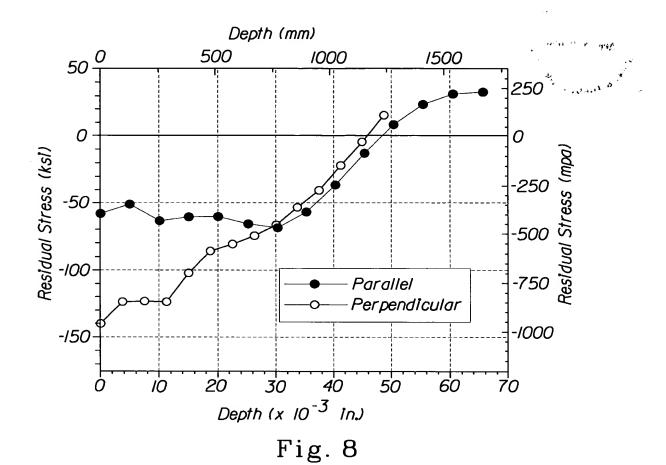


Fig. 6A





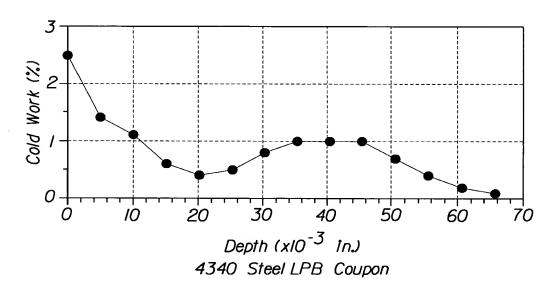
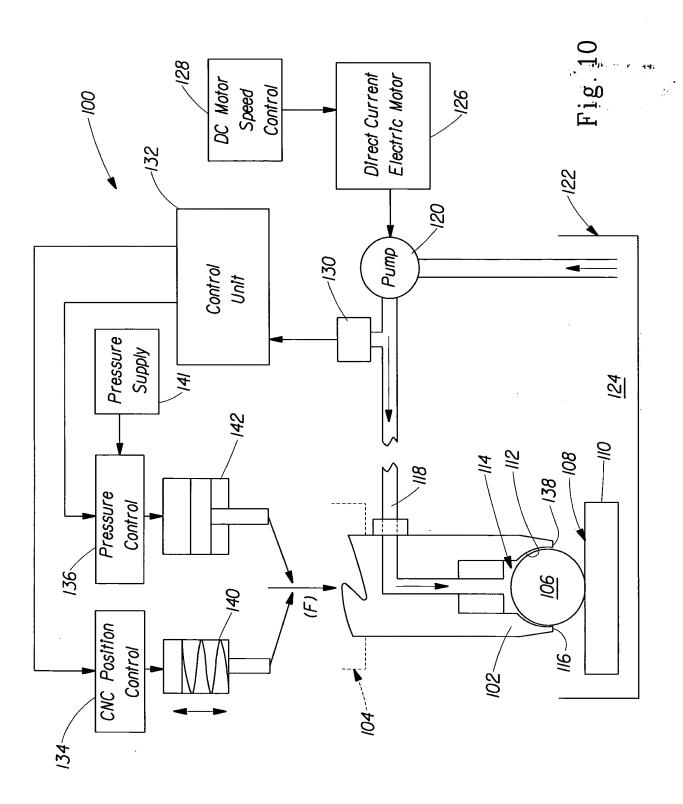
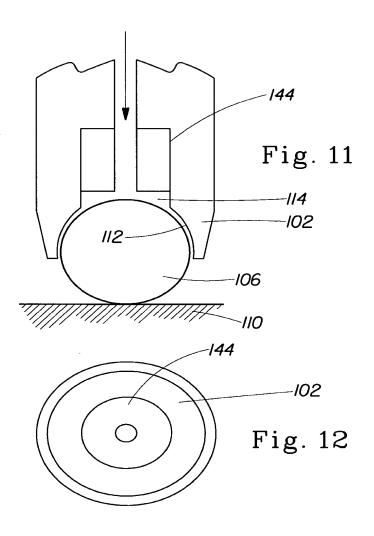


Fig. 9





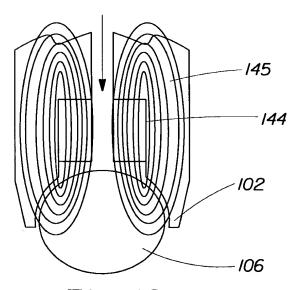


Fig. 13

